

Abstract

A detector of liquid consumption condition includes a vibrating part that can vibrate relatively to a containing space that can be filled and refilled with a liquid. At least a portion of the vibrating part is exposed to the containing space. A  
5 piezoelectric device can cause the vibrating part to vibrate based on a driving signal and can generate a counter electromotive force signal by a vibration of the vibrating part. A liquid consumption condition detecting part can detect a liquid  
10 consumption condition, based on the counter electromotive force signal from the piezoelectric device. The containing space can contain only a predetermined volume of the liquid. The vibrating part is provided in a vicinity of a liquid surface in the containing space when the containing space contains the  
predetermined volume of the liquid.

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